## In the Claims:

Please amend the claims as follows.

- 1. (Currently amended) A process for the preparation of water-absorbent, foam-type polymer structures, wherein an aqueous composition (A) containing
  - (A1) water,
  - (A2) one or more polymers based at least on
    - (α1) from <u>about</u> 55 to <u>about</u> 100 wt.% of a polymerized, monoethylenically unsaturated, acid-group-containing monomer or its salt <u>thereof</u>, and on
    - ( $\alpha$ 2) from 0 to <u>about</u> 45 wt.% of a polymerized, monoethylenically unsaturated monomer that is copolymerizable with ( $\alpha$ 1),

wherein the sum of the amounts by weight of  $(\alpha 1)$  and  $(\alpha 2)$  is 100 wt.% and wherein at least <u>about</u> 31.5 wt.% of the monomers, based on the total weight of the monomers  $(\alpha 1)$  and  $(\alpha 2)$ , are acrylic acid or salts of acrylic acid,

- (A3) one or more crosslinkers,
- (A4) one or more blowing agents,
- (A5) one or more surfactants,
- (A6) and optionally further auxiliary substances,

is foamed, and the foamed aqueous composition is then heated at a temperature in a range of from <u>about</u> 50 to <u>about</u> 300°C, so that the polymer (A2) crosslinks at least partially and the content of water (A1) is adjusted to not more than <u>about</u> 15 wt.%, based on the total weight of the foam-type polymer structure that forms.

- (Currently amended) Process The process according to claim 1, wherein the polymer
  (A2) has a number-average molecular weight of at least about 10,000 g/mol.[.]
- 3. (Currently amended) Process The process according to claim 1 or 2, wherein the foamed composition has a foam litre weight of from about 10 to about 1000 g/l.

- 4. (Currently amended) Process The process according to claim 1 one or more of claims 1 to 3, wherein the surface of the absorbent, foam-type polymer structure is smoothed in a further process step.
- 5. (Currently amended) A water-absorbent, foam-type polymer structure obtainable by a process according to claim 1-to-4.
- 6. (Currently amended) Water-absorbent A water-absorbent, foam-type polymer structure according to claim 5, wherein the polymer structure has at least one of the following properties:
  - (β1) an AUL (absorbency under load) of 0.9% NaCl solution under a load of 0.3 psi of at least about 10 g/g;
  - ( $\beta$ 2) a rate of absorption of more than about 1 g/g/sec;
  - (β3) a maximum absorption capacity in a range of from about 20 to about 300 g/g;
  - (β4) a CRC (centrifugation retention capacity) in a range of from <u>about</u> 7.5 to <u>about</u> 100 g/g;
  - (β5) a mean pore size in a range of from about 0.01 to about 2 mm;
  - (β6) a mean pore density in a range of from about 60 to about 1200 g/m<sup>2</sup>.
- 7. (Currently amended) A water-absorbent, foam-type polymer structure containing
  - (B1) from <u>about 20</u> to <u>about 99.99</u> wt.%, based on the total weight of the polymer structure, of one or more crosslinked polymers based at least on
    - (γ1) from <u>about</u> 50 to <u>about</u> 99.9 wt.% of a polymerized monoethylenically unsaturated, acid-group-containing monomer or its salt,
    - ( $\gamma$ 2) from 0 to <u>about</u> 45 wt.% of a polymerized monoethylenically unsaturated monomer that is copolymerizable with ( $\gamma$ 1), and
    - (y3) from about 0.001 to about 5 wt.% of one or more crosslinkers,

- wherein the sum of the amounts by weight of  $(\gamma 1)$  to  $(\gamma 3)$  is 100 wt.% and at least about 31.5 wt.% of the monomers, based on the total weight of the monomers  $(\gamma 1)$  and  $(\gamma 2)$ , are acrylic acid or a salt thereof,
- (B2) from <u>about 0.01</u> to <u>about 30</u> wt.% of one or more additives, based on the total weight of the polymer structure, and
- (B3) from 0 to <u>about</u> 15 wt.% of water, based on the total weight of the polymer structure,

wherein the sum of the amounts by weight of (B1) to (B3) is 100 wt.% and wherein the water-absorbent, foam-type polymer structure has the following properties ( $\beta$ 1) and ( $\beta$ 2):

- (β1) an AUL (Absorbency under Load) of 0.9% NaCl solution at a load of 0.3 psi of at least about 10 g/g;
- (β2) an absorption speed of more than about 2 g/g/sec.
- 8. (Currently amended) Composite A composite comprising a water-absorbent, foam-type polymer structure according to claim 5-to-7 and a substrate.
- 9. (Currently amended) Process A process for the production of a composite according to claim 8, wherein the water-absorbent, foam-type polymer structure a foamed composition as defined in claim 1 to 3 is brought into contact with at least a portion of the surface of a substrate and the substrate brought into contact with the foamed-composition water-absorbent, foam-type polymer structure is then heated at a temperature in a range of from about 50 to about 300°C so that the polymer (A2) crosslinks at least partially, the content of water (A1) is adjusted to not more than about 15 wt.%, based on the total weight of the foam-type polymer structure that forms, and the resulting foam-type polymer structure is immobilized on at least a portion of the surface of the substrate.
- 10. (Currently amended) Process A process according to claim 9, wherein the substrate is a film selected from the group consisting of polymeric film, metal, nonwoven, fluff, tissue, woven fabric, natural fiber, synthetic fiber and foam of polymers, such as, for ex-

ample, of polyethylene, polypropylene or polyamide, a metal, a nonwoven, a fluff, a tissue, a woven fabric, a natural or synthetic fiber, or another foam.

- 11. (Currently amended) <u>Process A process</u> according to claim 9 or 10, wherein templates are used during application of the foamed, aqueous composition water-absorbent, foamtype polymer structure to the substrate.
- 12. (Currently amended) A process for the production of a composite according to claim 8, wherein at least a portion of the surface of a water-absorbent, foam-type polymer structure according to any one of claims 5 to 7 claim 5 is brought into contact with at least a portion of the surface of a substrate, and the polymer structure is then immobilized on at least a portion of the surface of the substrate.
- 13. (Currently amended) <u>Process A process</u> according to claim 12, wherein the substrate is a thermoplastic sheet-form structure.
- 14. (Currently amended) Composite A composite obtainable by a process according to claim 1 one or more of claims 9 to 13.
- 15. (Cancelled)
- 16. (Currently amended) A Chemical products chemical product containing comprising a water-absorbent, foam-type polymer structure according to one or more of claim 5 claims 5 to 7 that absorbs water and aqueous liquids, or a composite according to claim 9 or 14.
- 17. (New) A chemical product comprising a composite of claim 8.